

FIG. 1

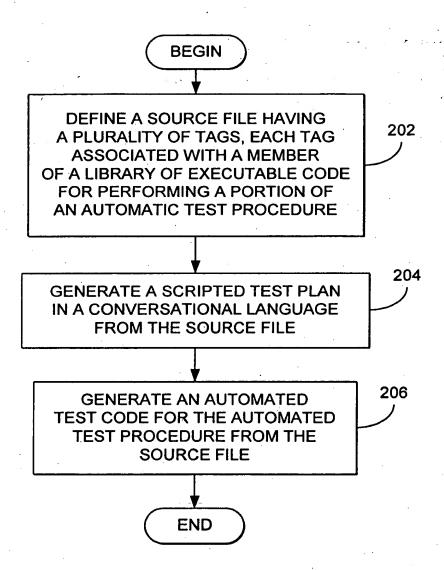


FIG. 2

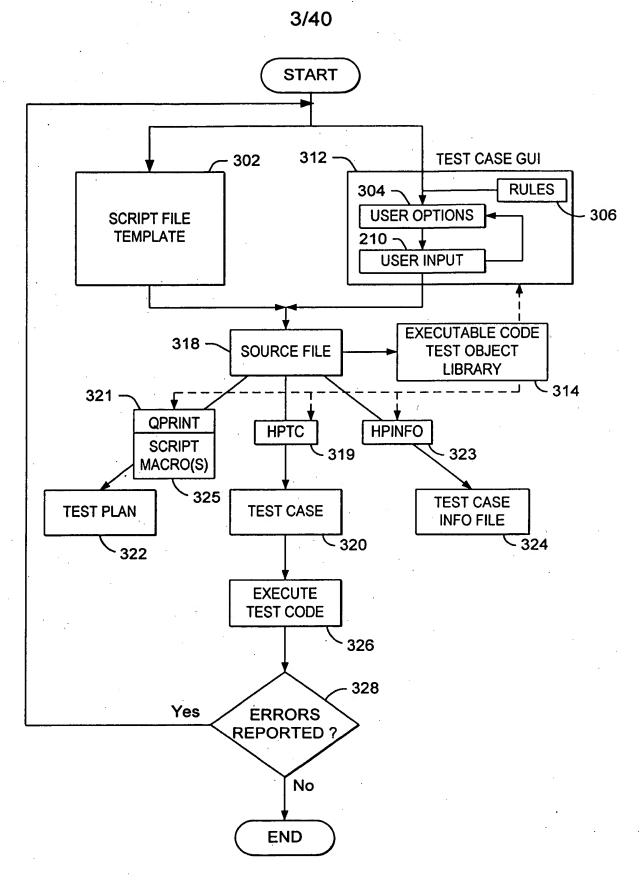


FIG. 3

302

:H3.SMQA0 1 -9 1 IMS/CQS, non-response mode trans :hppartc tc= 'SMQA0 1 -9'

```
402 —:h4.Objectives
404 —:p.The purpose of the test is entered here.
406 ~:h4.Scenario
408 —:ol compact.
410 —: ii. The test scenario is entered here
412 ~:eol.
414 —:h4.Procedure
416 —:ol compact.
418 —: li.Insert IT2 procedures here
420 —:eol.
422 ~:h4.Verification
424 —:ol compact.
426 —: li.Testcase is self-verifying.
428 ~:eol.
430 —:h4.System Configuration
432 —:ol compact.
434 —: li.This test case uses configuration___.
436 ~:eol.
438 —:h4.Parts used by Test Case
440 — insert parts used by Test Case
442 —:hpauthor aname= Insert author name
```

FIG. 4

- 500

:H3.SMQA0 1 -9 1 IMS/CQS, non-response mode trans

:hppartc tc= 'SMQA0 1 -9'

:h4.Objectives

502 {:p.The purpose of the test is to validate that transactions can be processed on the Shared Message Queue. This test case will queue up non-response mode transactions on the queue and process them.

- :h4.Scenario
- :ol compact.
- :li.Start up a 1-way SYSPLEX with 1 Coupling Facility
- :li.Initialize the RECONS and Load the DA Data Base share level 3
- :li.Start IRLM 2.1
- 504 :ii.Cold start 1 IMS/CQS.
 - :li.Submit 1000 non-response mode transactions
 - :li.Start application program
 - :li.Submit another 500 non-response mode transactions
 - :li.Shutdown IMS after work is processed
 - :eol.
 - :h4.Procedure
 - :ol compact.
 - :li.Insert IT2 procedures here
 - :eol.
 - :h4.Verification
 - :ol compact.
 - :li.Testcase is self-verifying.
 - :eol.
 - :h4.System Configuration
 - :ol compact.
 - :li.This test case uses configuration 30.
 - :eol.
 - :h4.Parts used by Test Case
 - :hppartp
 - :hpauthor aname= 'Tom Pavela'

FIG. 5

:H3.SMQA0 1 -9 1 IMS/CQS, non-response mode trans

:hppartc tc= 'SMQA0 1 -9'

:h4.Objectives

:p.The purpose of this test is to validate that transactions can be processed on the Shared Message Queue. This test case will queue up non-response mode transactions on the queue and process them.

:h4.Scenario

:ol compact.

:li.Start up a 1-way SYSPLEX with 1 Coupling Facility

:li.Initialize the RECONS and Load the DJK Data Base share level 3

:li.Start IRLM 2.1

:il.Cold start 1 IMS/CQS.

:li.Submit 1000 non-response mode transactions

:li.Start application program

:li.Submit another 500 non-response mode transactions

:li.Shutdown IMS after work is processed

:eol.

:h4.Procedure

:ol compact.

602A ~: HPENTRY CONFIG=30 ~ 602B

604A ~: HPLOAD DB='DJK' SHRL=3 ~ 604B

606A ~: HPSRLM2 ON=ALL _ 606B

608A ~: IMSSTART ON=ALL DB='DJK' RE=NRE ~ 608B

CFNAMES1 ='CFNAMES,CFIRLM=LT01,CFVSAM=,CFOSAM=OSAMSESXI'

610A ~:TMSCNTI

ON=ALL NTRANS=1000 ~ 610B

612A ~:TMSCNTI

ON=ALL-NTRANS=500 - 612B

614A ∼:IMSSTOP

ON=ALL - 614B

616A ~: HPEXIT ~ 616B

:eol.

:h4.Verification

:ol compact.

:li.Testcase is self-verifying.

:eol.

:h4.System Configuration

:ul compact.

:li.This test case uses configuration 30.

:eul.

:h4.Parts used by Test Case

:hppartp

:hpauthor aname= 'Tom Pavela'

FIG. 6

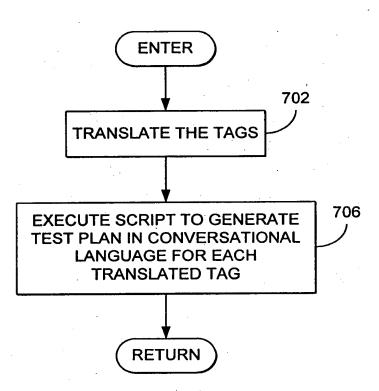


FIG. 7

SMQA0 1 -9 1 IMS/CQS, NON-RESPONSE MODE TRANS

Objectives -

The purpose of this test is to validate that transactions can be processed on the Shared Message Queue.

This test case will queue up non-response mode transactions on the queue and process them.

Scenario

- 1. Start up a 1-way SYSPLEX with 1 Coupling Facility
- 2. Initialize the RECONS and Load the DJK Data Base share level 3
- 3. Start IRLM 2.1
- 4. Cold start 1 IMS/CQS.
- 5. Submit 1000 non-response mode transactions
- 6. Start application program
- 7. Submit another 500 non-response mode transactions
- 8. Shutdown IMS after work is processed

Procedure -

- 1. Call Hpcs_entry using configuration 30 and ARM= NO and ARCDEFLT= YES and RECVTAM= YES
- 2. Call Hpcs_load_databases which will:
 - a. Define the shared RECON data sets
 - b. Run the load database job(s) to load database(s) DJK and register the data bases as share level -3
- 3. Call Hpcs Start_IRLMs_21 which will:
 - a. Start IRLM 2.1 on all CECS with a lock structure of LT01
- 4. Call Start_IMS_on_all_systems which will:
 - a. Run HPC\$SPEC MODEL to update the VSPEC member on all CECs with (CFNAMES,CFIRLM=LT01,CFVSAM=,CFOSAM=OSAMSESXI)
 - b. Run IMS%CSA% MVSPROC to bring up IMS TM/DB region on all CECs with CQS using VCATSHR.
 - c. After DFS810A message is displayed, issue "/NRE CHKPT 0 FORMAT ALL." Wait for cold start to complete.
 - 1) Issue IMS command "/STOP DB DBHDOJ01"
 - 2) Issue IMS command "/STOP DB DBHDOK01"
 - 3) Issue IMS command "/START DB DBHDOJ01 ACCESS=UP"
 - 4) Issue IMS command "/START DB DBHDOK01 ACCESS=UP"

FIG. 8A

- . 5. Call Start_Transaction_Scenario_1 which will:
 - a. Submit 1000 non-response mode transactions (HPCSTCL1) on all CECs
 - b. Issue the IMS / START PROGRAM HPC\$M\$00 command on all CECs
 - c. Wait for all Scenario 1 transactions to be processed, then verify the transaction counter is correct.
 - 6. Call Start_Transaction_Scenario_ 1 which will:
 - a. Submit 500 non-response mode transactions (HPCSTCL1) on all CECs
 - b. Issue the IMS / START PROGRAM HPC\$M\$00 command on all CECs
 - c. Wait for all Scenario 1 transactions to be processed, then verify the transaction counter is correct.
 - 7. Call Stop_all_IMSs which will:
 - a. Issue a "/CHE FREEZE" to bring down the IMS control region on all CECs
 - b. When IMS control region on all CECs completes, verify all condition codes to be zero.
 - c. In Shared Queues configurations when CQS region on all CECs completes, verify all condition codes to be zero.
 - 8. Call Hpcs_Exit routine

Verification

1. Testcase is self-verifying.

System Configuration

o This test case uses configuration 30.

Parts used by Test Case

CFCPLOAD PROCEDURE

RCN%CSA% PROCEDURE

HPC\$L05 MODEL

LOADDJK PROCEDURE

IRLME2N PROCEDURE

HPC\$SPEC MODEL

IMS%CSA% PROCEDURE

SMQ\$C19X MVSPROC

SMQ\$BMP JCL

HPC\$TPNS MODEL

HPC\$MPP MODEL-

HPC\$JOB EXEC

Author: Tom Pavela

FIG. 8B

/* S	SMQA0 1 -9 1 IMS/CQS, non-response mode trans	*/ * */
/ /*		*/
/* /*	Objectives	*/
, /* /* /* /* /*	The purpose of this test is to validate that transactions can be processed on the Shared Message Queue. This test case will queue up non-response mode transactions on the queue and process them.	*/ */ */ */
, /* /*	Scenario	*/
/ /* /*	Start up a 1-way SYSPLEX with 1 Coupling Facility	*/
/ /* /* /*	Initialize the RECONS and Load the DJK Data Base share level 3	*/
/ /* /*	Start IRLM 2.1	*/ */
/ /* /*	Cold start 1 IMS/CQS.	*/ */
, /* /*	Submit 1000 non-response mode transactions	*/
/* /*	Start application program	*/
/* /*	Submit another 500 non-response mode transactions	*/
/*	Shutdown IMS after work is processed	*/

FIG. 9A

<i></i>	********			
/* This TC requires that an EC machine be ipled and executing in a /* Parallel SYSPLEX Environment (with a Coupling Facility)				
/*SECURITY : I	BM INTERNAL USE ONLY */			
•	'SMQA01-9" */			
	'SMQA01-9 SCRIPT A1" */			
	1 IMS/CQS, non-response mode trans */			
GLOBAL MVSPROC ATIVER Transport GLOBAL ResetPorts DialPort GLOBAL DoWaitSwap ATIS				
/* Hpcs subroutine library	*/ */			
GLOBAL CONFIGURATION GLOBAL DATABASES GLOBAL CFNAMES1 GLOBAL CFNAMES2 GLOBAL OPTIONS GLOBAL DBDLIST GLOBAL ACBLIB GLOBAL HPCLIST GLOBAL HPCSTRCE	/*: determines #ECs & #CFs & struct location */ /*: determines databases to load and access */ /*: CFNAMES card #1 used by HPC\$VSPEC */ /*: CFNAMES card #2 used by HPC\$VSPEC */ /*: IRLM 2.1 options (start_a_Irlm only) */ /*: dbdlist at hpcs_entry */ /*: acblib at hpcs_entry, psb will be gened to */ /*: psblist at hpcs_entry */ /*: TRACE value while in HPC\$SUB */			
/*	Scenario variables*/			

FIG. 9B

	GLOBAL HPCSLOG	/*: LOG causes Scenario logging to OLDS	*/
	GLOBAL HPCSTRAN	/*: #trans to use in Scenario 1-350	*/
	·	/* Scenarios 4, 5 <176 else <351	*/
	GLOBAL HPCSMPPS	/* The number of Mpps to be used by	*/
	•	/* database type, 1, 2 or 3 (def=3)	*/
•	GLOBAL HPCSVER	/* ='Yes' verify environment, ='No', goto	*/
		/* check all messages processed loop	*/
	GLOBAL HYPER	/* Yesuse VSAM Hyper space	*/
	GLOBAL SHARER	/* Yesstart 2nd IMS	*/
	GLOBAL MODEL	/* Mvscmd model proc	*/
	GLOBAL NUMPARTS	/* Number of Partitions	*/
	GLOBAL RESLIB	/* IMS reslib	*/
	GLOBAL PARM1	/* IMS parm1	*/
	GLOBAL PARM2	/* IMS parm2	*/
	GLOBAL RESTART_VTAM	/* restart_vtam=yes/no for recycled vtam in entry	*/
	GLOBAL VSPEC	/* IMS VSPEC	*/
	GLOBAL PROCNAME	/* IMS PROCNAME	*/
	GLOBAL CEC1_RESLIB	/* CEC1 RESLIB	*/
	GLOBAL CEC2_RESLIB	/* CEC2 RESLIB	*/
	GLOBAL CEC3_RESLIB	/* CEC3 RESLIB	*/
	GLOBAL Scenario2_log	/* TMSCNTX Scenario2 _Log	*/
	GLOBAL Scenario3_log	/* TMSCNTX Scenario3 _Log	*/
	GLOBAL Scenario4_log	/* TMSCNTX Scenario4 _Log	*/
	GLOBAL Scenario5_log	/* TMSCNTX Scenario5 _Log	*/
	GLOBAL Scenario6_log	/* TMSCNTX Scenario6 _Log	*/
	GLOBAL Scenario7_log	/* TMSCNTX Scenario7 _Log	*/
	GLOBAL Scenario8_log	/* TMSCNTX Scenario8 _Log	*/
	GLOBAL Scenario9_log	/* TMSCNTX Scenario9 _Log	*/
	GLOBAL ScenarioA_log	/* TMSCNTX ScenarioA _Log	*/
	GLOBAL ScenarioB_log	/* TMSCNTX ScenarioB _Log	*/
	GLOBAL ScenarioC_log	/* TMSCNTX ScenarioC _Log	*/
	GLOBAL ScenarioD_log	/* TMSCNTX ScenarioD _Log	*/
	GLOBAL ScenarioE log	/* TMSCNTX ScenarioE Log	*/

GLOBAL ScenarioF_log	/* TMSCNTX ScenarioF_Log	*
GLOBAL ScenarioG_log	/* TMSCNTX ScenarioG_Log	*
GLOBAL ScenarioH_log	/* TMSCNTX ScenarioH_Log	*
GLOBAL Scenario I_log	/* TMSCNTX Scenario I_Log	*
GLOBAL ScenarioJ_log	/* TMSCNTX ScenarioJ_Log	*
GLOBAL ScenarioK_log	/* TMSCNTX ScenarioK_Log	*
GLOBAL ScenarioL log	/* TMSCNTX ScenarioL_Log	*
GLOBAL CQSWTOR1	/* CQSWTOR1	*
GLOBAL ARCDEFLT	/* Archive member default	*
GLOBAL NumofTerm_to_Use	/* Num of Terminal to use for Scenario 1-10	*
GLOBAL ARM	/* ARM policy	*
GLOBAL ShareDB	/* Share DB YES-Global No-Local	*
GLOBAL IMSLOCAL	/* Local IMS?	*
GLOBAL RSRMBR	/* RSRMBR RSR Member	*
GLOBAL DELSLDS	/* DELSLDS Delete SLDS	*
GLOBAL RLVL	/* RLVL Readiness level	*
GLOBAL HPCSFRCE	/* routine in HPC\$CMD to cleanup structures	*
/**********************		*
/*	Called Commands	*
GLOBAL SwitchEC		
GLOBAL Hpcs_entry		
GLOBAL Hpcs_load_databases		
GLOBAL Hpcs_Start_IRLMs_21		
GLOBAL Start_IMS_on_all_sys	tems	
GLOBAL Start_Tran_Scenario_	1	
GLOBAL Stop_all_IMSs	•	
GLOBAL Hpcs_exit		
GLOBAL Hpcs_clear		
GLOBAL Hpcs_clear_all		
GLOBAL Hace logit		

FIG. 9D

/*====================================	*/ */
/*>>> EC1 <<<	*/
Call Hpcs_entry " " /* load the database(s) using sharelevel 3 DATABASES=" DJK " ShareDB="YES" Call Hpcs_load_databases "3 " Call Hpcs_Start_IRLMs_21 " "	*/ ***/
/* Cold start IMS TM_DB region on ALL system(s) /* CQS will be started and the default model is SMQ\$C19X. /* The following IMS parms will be used if they are not set by the /* user in IMSPARMS: /* IRLM=Y, VSPEC=HP, IMSID=IMSx /* SHAREDQ=%%x, DC=COx /* note: x is 1,2, or 3 depending on which CEC /* DLINM=HPC%CSA% (if DBDLIST or PSBLIST is specified in HPENTRY	*/ */ */ */ */ */ */ */ /)*/
CFNAMES1= 'CFNAMES, CFIRLM=LT01, CFVSAM=, CFOSAM=OSAMSESXI' CFNAMES2="NO" DATABASES=" DJK " SHARER="NO" HYPER="NO" IMSLOCAL="N" RESLIB="C" PROCNAME="DEFAULT" PARM1=" " PARM2=" " VSPEC="DEFAULT" MODEL="DEFAULT" Call Start_IMS_on_all_systems Call Start_Tran_Scenario_1 "LEAVE=NO NTRANS=1000 ON=ALL STARTAPL=ALL" Call Start_Tran_Scenario_1 "LEAVE=NO NTRANS=500 ON=ALL STARTAPL=ALL" Call Stop_all_IMSs " Call Hpcs_exit " " /*===================================	
EXIT 0 INCLUDE "HPC\$SUB"	
/*====================================	*/ */

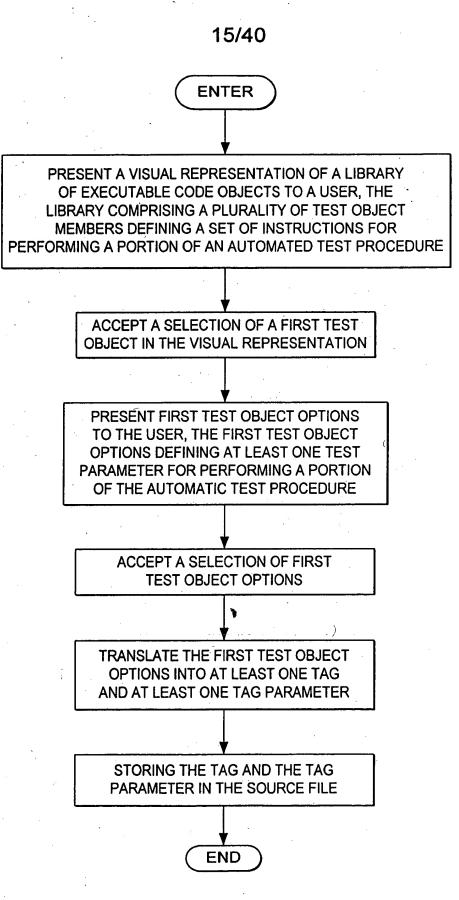


FIG. 10

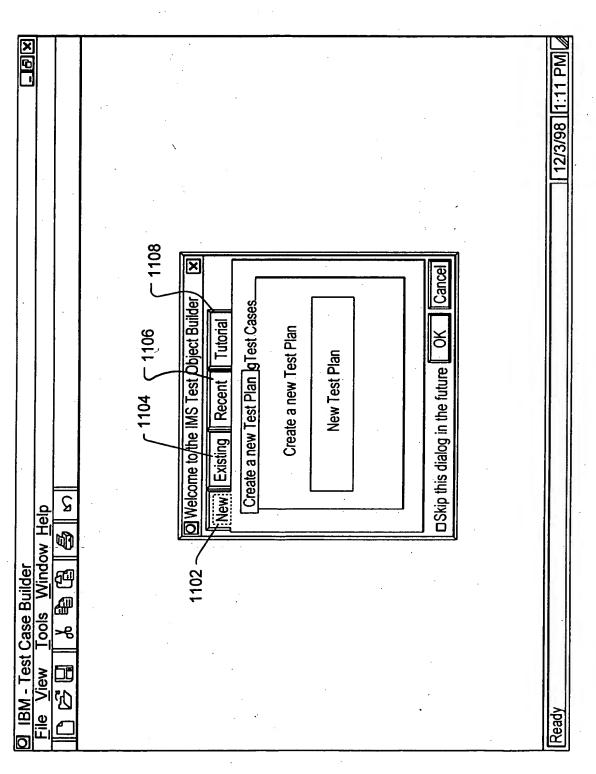


FIG. 7

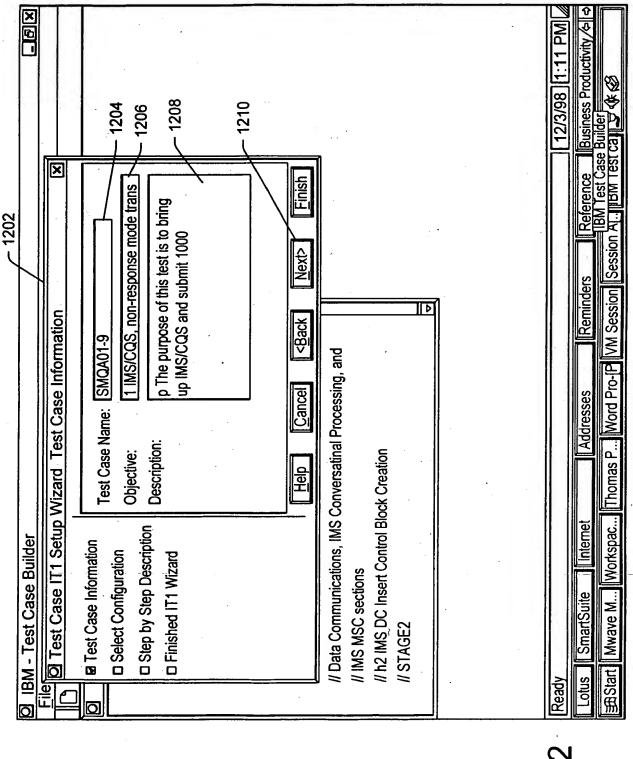


FIG. 12

18/40

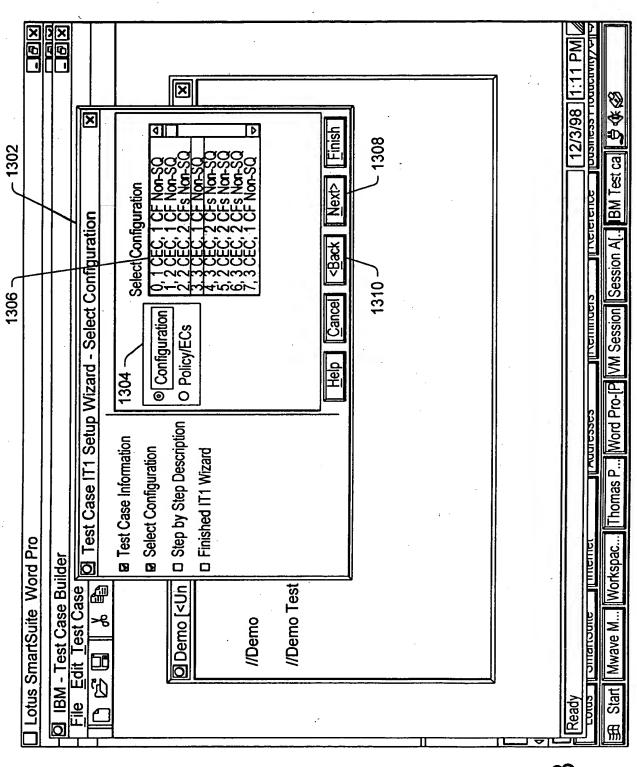


FIG. 13

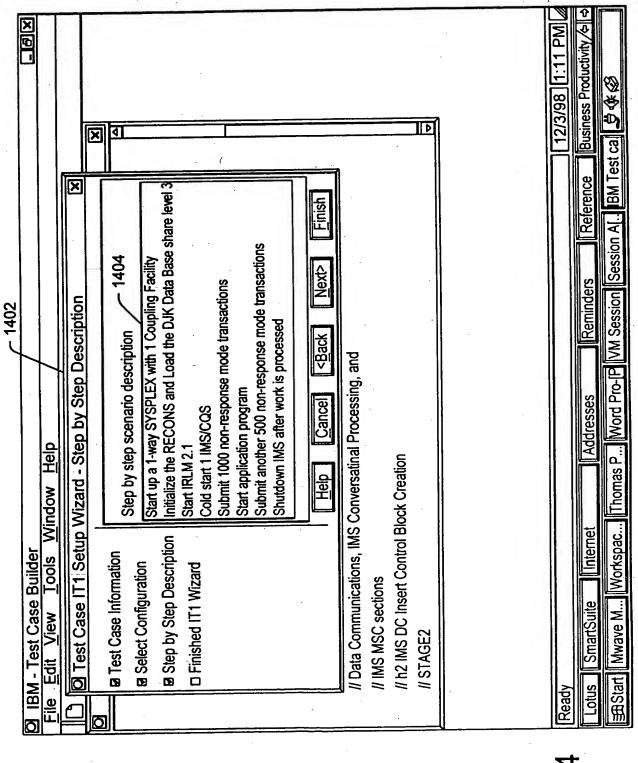


FIG. 14

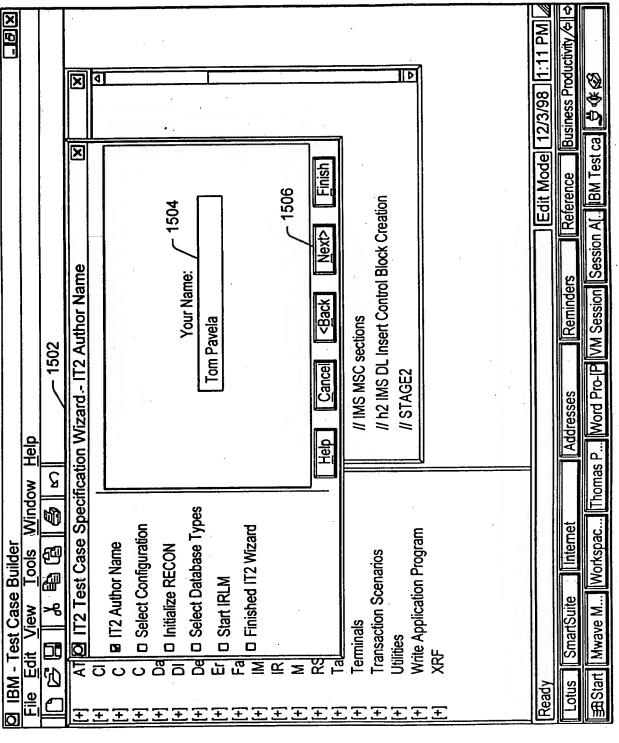


FIG. 15

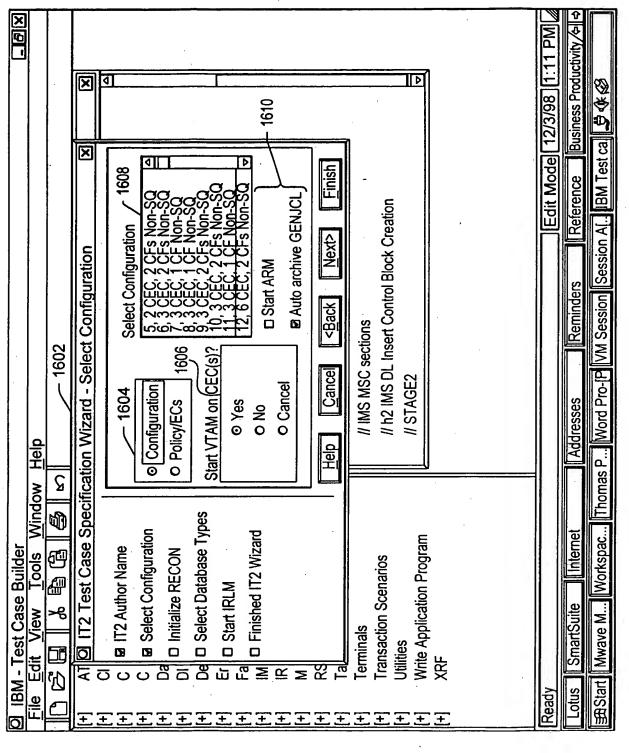


FIG. 16

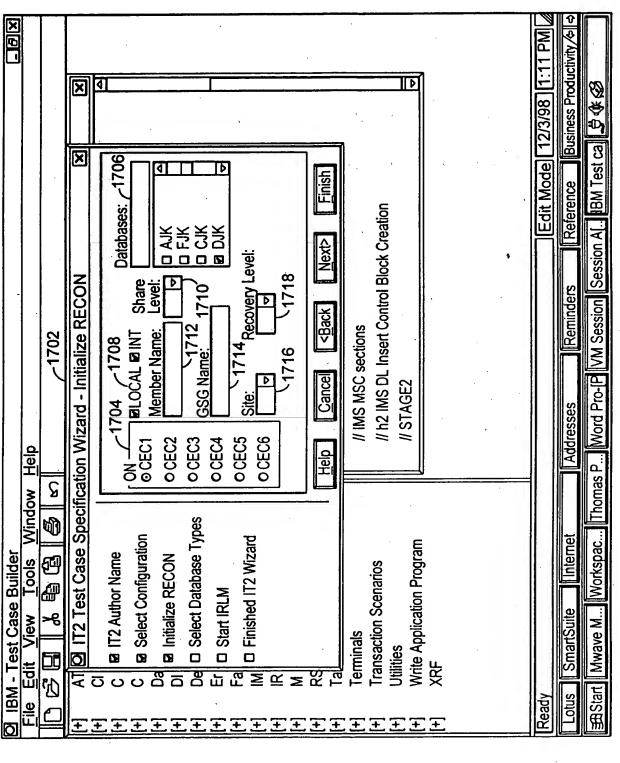


FIG. 17

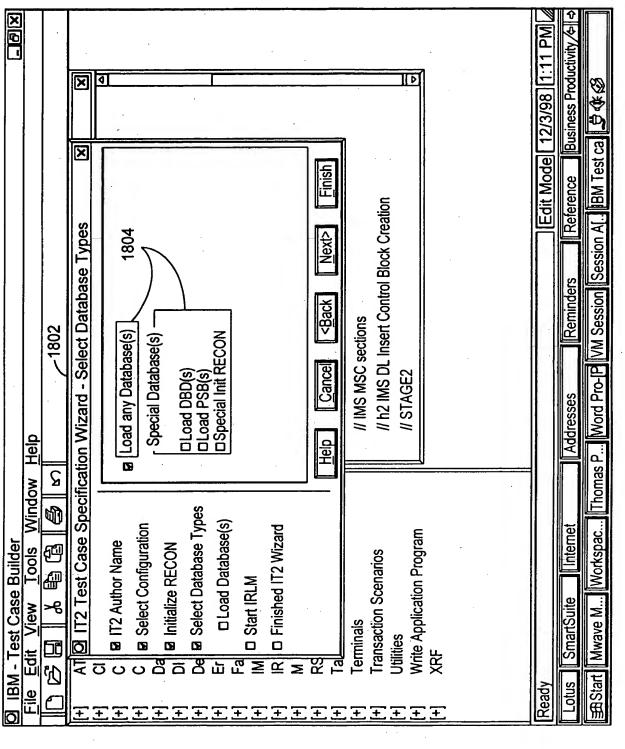


FIG. 18

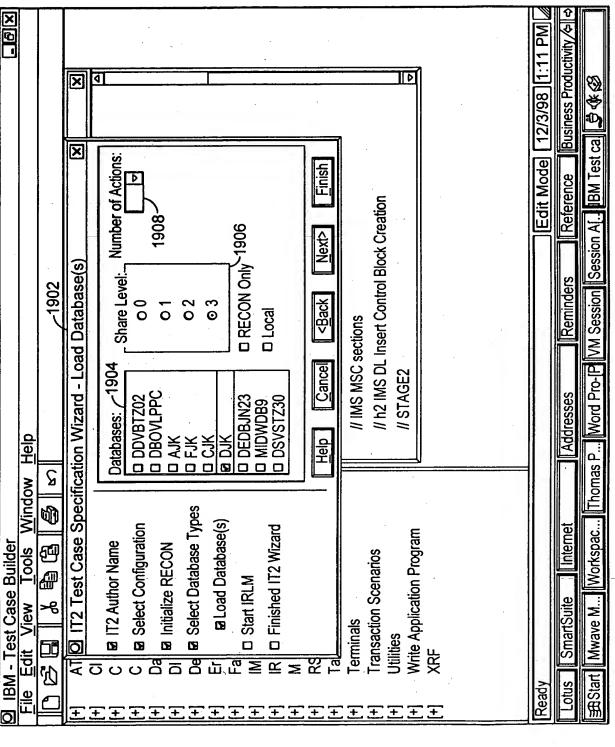


FIG. 19

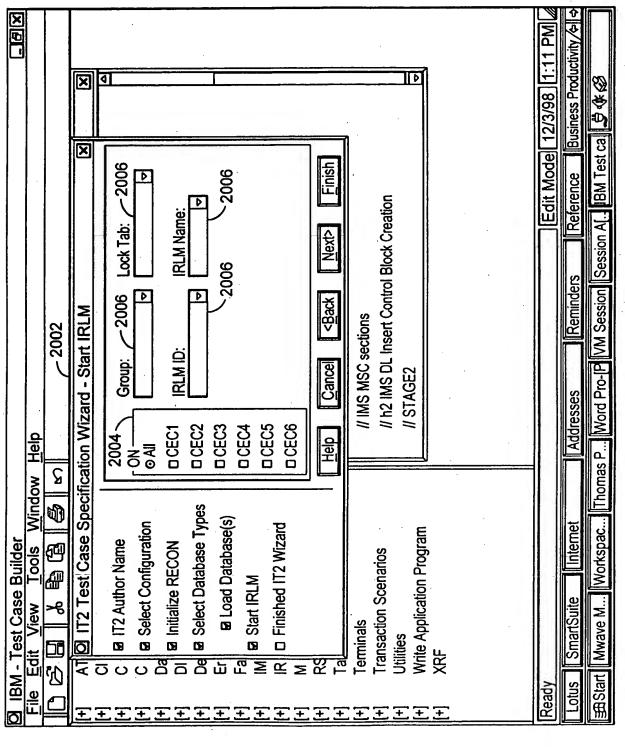
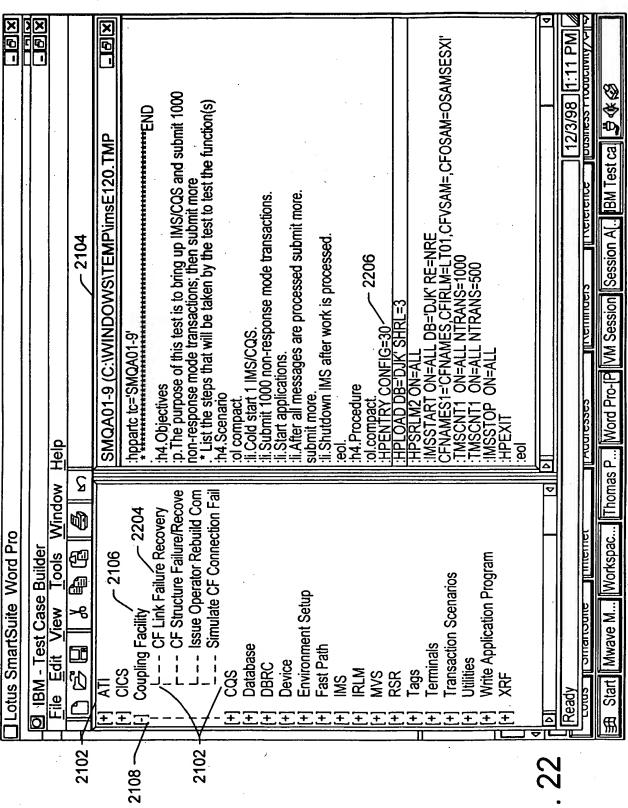


FIG. 20

	<u>8</u>	O IBM - Test Case Builder	X P -
	를 E	it <u>V</u> iew	<u>H</u> elp
2102	7	(구립 사 특별 (목) N	2104
	E	ATI	SMQA01-9 (C:\WINDOWS\TEMP\imsB225.TMP LIBIX
2108 -	<u> </u>	CICS Coupling Eacility 7 2106	
	ΞΞ		14. Objectives
	王.	Database	1. 1 IMS/CLOS, non-response mode trans
	<u> </u>	DBRC	ol compact. Ii.Start up a 1-way SYSPLEX with 1 Coupling Facility
	Ξ	Environment Setup	II:Initialize the RECONS and Load the DJK Data Base share level 3
	Ξ	Fast Path	ii. Cold start 1 IMS/CQS.
	<u> </u>	W.S.	ii. Start application program
	<u>+</u>	IKLM	I.i. Submit another 500 non-response mode transactions
	<u> </u>	RSR	eol. h4 Procedire
	<u> </u>	Tags	iol compact.
	<u> </u>	Terminals	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	王王	Transaction Scenarios Utilities	This is the Body of the Test Case Enter your code Below
	Ξ	Write Application Program	1444
	Ŧ	XRF	HPENTRY CONFIG=3 RECVTAM=YES ARCDEFLT=YES ARM=NO INITRCON ON=CEC1 DB='DJK' LOCAL=N INIT=Y HPI OAD DB='DJK' SHRI =3 RECONI Y=NO I OCAI =NO
			HPSRLM2 ON='ALL'
			<u>▶</u>
5.21	Ready		12/3/98 [1:11 PM]
	Lotus	SmartSuite Internet	Addresses Reminders Reference Business Productivity ∕≎ ⇒
	##Start	Int Mwave M Workspac Thomas P	3 P Word Pro-[P] VM Session Session A[BM Test ca 🗳 🛠 🖄
		al.	



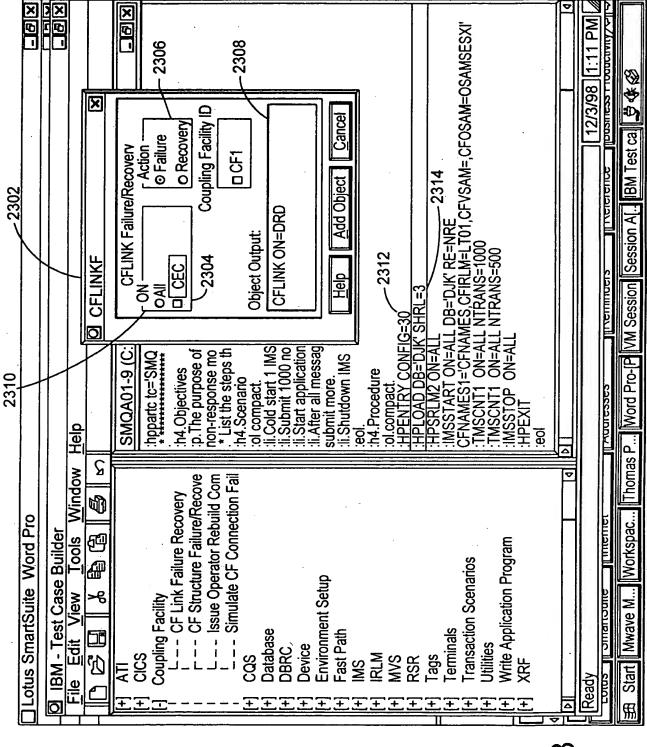


FIG. 23

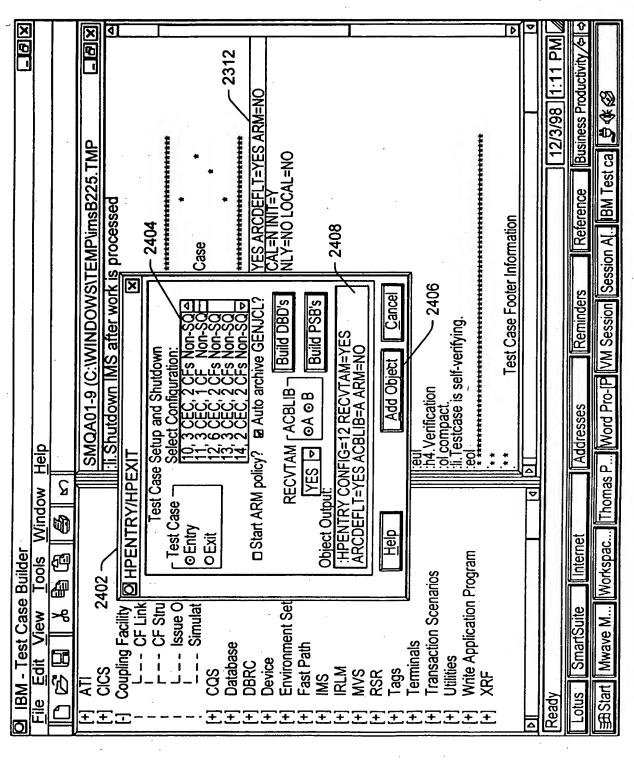


FIG. 24

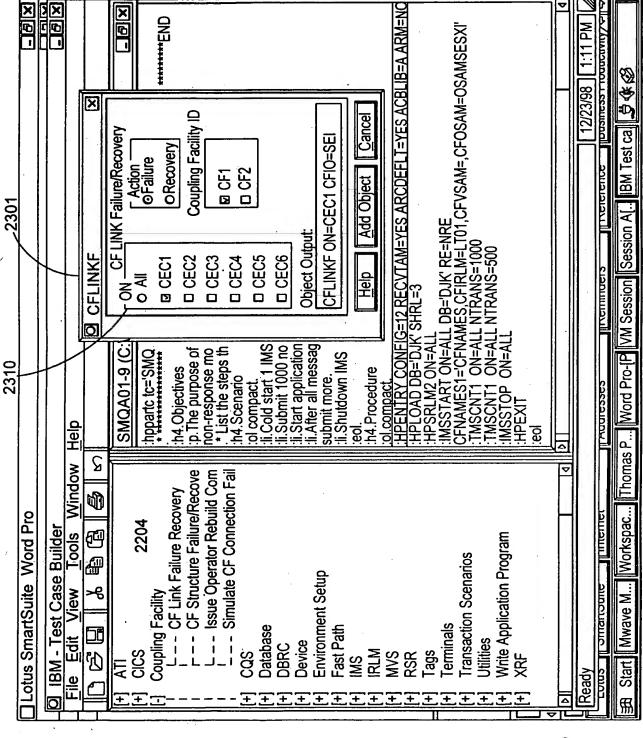
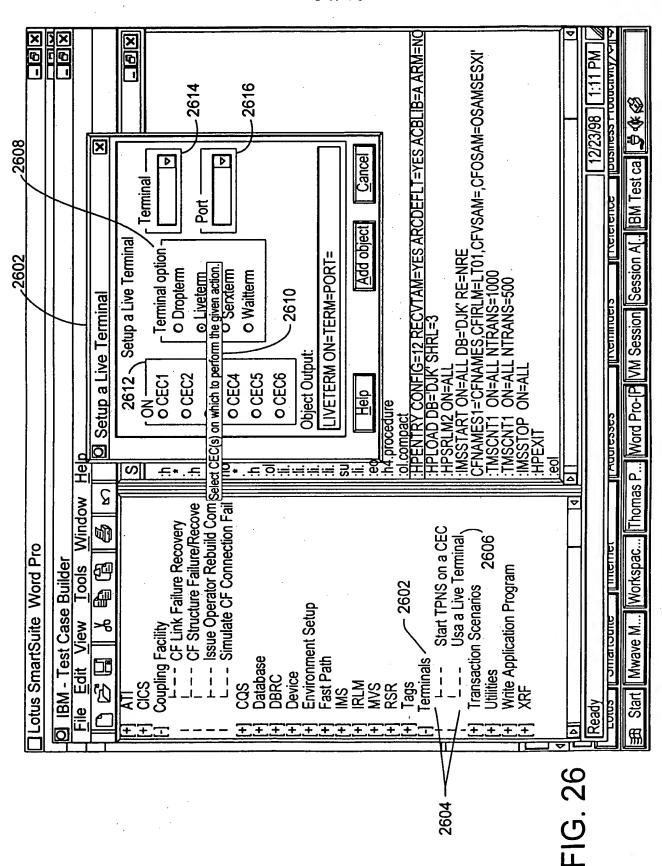
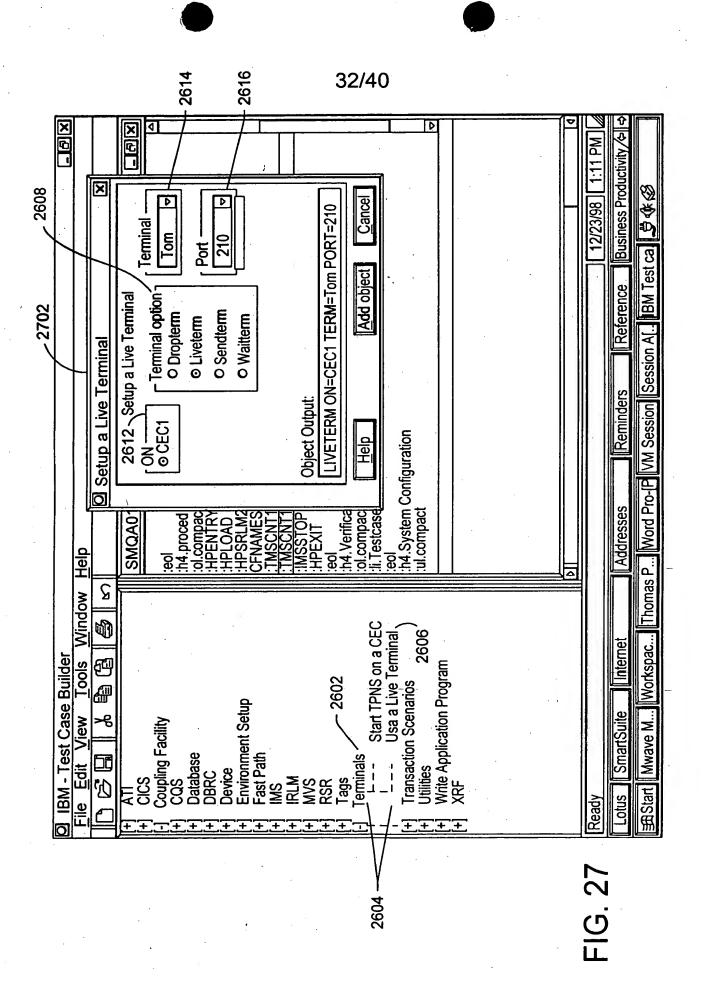


FIG. 25





O IBM - Test Case Builder		X 9 -
File Edit View Tools Window	Help	
여 6 8 의 명 % 1 II 오 디		
[+] ATI	SMQA01-9 (C:\W\INDOWS\TEMP\imsE120.TMP	- 16 X
[+] CICS [-] Coupling Facility	:H3.SMQA01-9 1 IMS/CQS non-response mode trans :hppartc tc='SMQA01-9'	बा
	in4.Objectives in this test is to bring up IMS/CQS and submit 1000	
!	non-response mode transactions; then submit more function(s)	
(+) CQS (+) Database	.h4.Scenario	
[+] DBRC	iii Cold start 1 IMS/CQS.	
	II.Start ap IMS Test Object Builder IXII	
[+] East Path		
[+] IMS	ii. Shutdo	
[-] IRLM	:eol.	
[+] MVS	ol.compact. HPENTRY CONFIG=30	<u> </u>
(+) RSR	3='DJK' SHRL=3	
	H:HPSRLM2 ON=AL H:MSSTART ON=A!	T
(+) Transaction Scenarios	S1='CFNAM	SXI.
(+) Utilities	:IMSCNT ON=ALL NTRANS=1000	
	ā.	
[+] XRF	ואבאוו	D
D	9	₽
Ready		PM /
Lotus SmartSuite Internet	Addresses Reminders Ref	ity/⇔ ⇔
Start Mwave M Workspac Thomas P	P Word Pro-IP VM Session Session Al. IBM Test ca 🖒 🕸	
بالمستحيث ويتمار فيستحيث فيستحيث		

FIG. 28

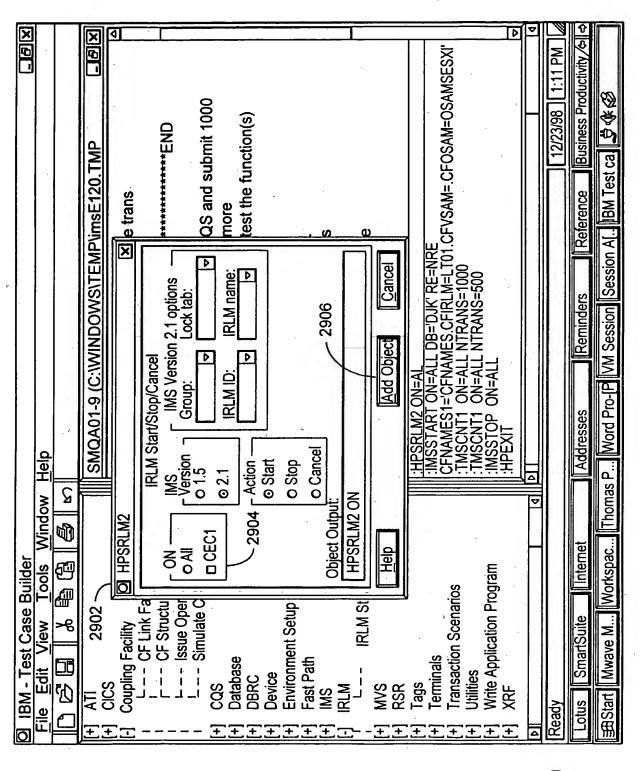


FIG. 29

```
IMS Test Object Change History
  mm/dd/yy - xxx
  HPSRLM2 Macro Start IRLM 2.1 on indicated CEC
.gs rules (vat)
.aa HPSRLM2 HPSRLM2
.dm HPSRLM2 on
.gs attval ON as *onn
.gs attval OPTIONS as *opt
.if \&e'\&*onn = 0
.th .go error
.if &u'&*onn = ALL
.th .go all
.if &l'&*onn = 4
.th .go scec
.el .go mcec
...all
:li.Call Hpcs_Start_IRLMs_21 which will:
ol compact.
:li.Start IRLM 2.1 on all CECS with a lock structure of LT01
.go cont1
...scec
.if e'*opt = 1
.th-.go-popt-
:li.Call Hpcs_Start_an_IRLM_21 which will:
:ol compact.
:li.Start IRLM 2.1 on &u'&*onn with a lock structure of LT01
.go cont1
...popt
:li.Call Hpcs Start_an_IRLM_21 which will:
:ol compact.
:li.Start IRLM 2.1 on &u'&*onn specifying the following options;
&u'&*opt
.go cont1
```

*
mcec :li.Call Hpcs_Start_an_IRLM_21 which will: :ol compact. :li.Start IRLM 2.1 on &u'&*onn with a lock structure of LT01 :*
cont1 :eolse fn = 'IRLME2N' .se ft = PROCEDURE .hpchkpt .se *fn1 = 'IRLM .se *fn2 = 2.1 .se fn = &*fn1.&*fn2 .hpadfun .go done
.*error :li.+++ERROR in HPSRLM2 INVALID ON Parameter******** .*done .dm off
.* end of HPSRLM2 Macro

FIG. 30B



```
HPSRLM2: /*ON=(CECx,ALL) LOCKTAB=1 GROUP=g IRLMID=i */
   Call Parse_variables
   upper on
   if result>1 then return result
   If Totall-=on1+options1 then return 6
   If on1=0 then return 7
   If options1-=0 & on='ALL' then return 18
   If options1-=0 & onn>1 then return 18
   data=eighty_blanks
   call Put_line_on_Stack
   Call Put_line_on_stack
  If on='ALL' then do
     Data ='Call Hpcs_Start_IRLMs_21' """
     Call Put_line_on_stack
     end
  If onn>1 then do
     do j=1 to onn
        work ec = substr(word(on,j),2,3)
        Call Check current_ec
        Data ='Call Hpcs Start an IRLM_21'
        Call Put line on stack
     end
  end
  If onn=1 & on-='ALL' then do
     work ec = substr(on, 2, 3)
     Call Check current ec
     If options1>0 then do
       Work_String=options
       Call Remove High Values
       options = Work_String
       Data = 'OPTIONS='||""||options||""
       Call Put line on stack
     Data ="Call Hpcs_Start_an_IRLM_21' """
     Call Put_line_on_stack
  Call Add_Library 'HPC$SUB'
return
```



```
*&START&*/
/* Routine Name: Hpcs start irlms 21
/* Called by:
/* Parameters passed:
/* Routines called:
/* Routine Function:
Hpcs start irlms 21:
  Call Save_callers_environment
  Call Hpcs_logit 'Hpcs_start_irlms_21 started'
  If Options-=" & Options-='OPTIONS' then do
     Call Hpcs_logit 'Options may not be specified when'
     Call Hpcs_logit 'starting "all" Irlms 2.1'
     goto Hpcs_test_case_aborted
  end
  Irlm process='Start'
  Call Process all irlms
  Call Restore_callers_environment
  Return 0
                                                       '*&START&*/
/* Routine Name: Process_all_Irlms
/* Called by:
/* Parameters passed:
/* Routines called:
/* Routine Function:
Process all Irlms:
  ec=1
  do until forever=true
     CMS_'GLOBALV SELECT MULTIEC STACK EC'ec
     Pull NewEC
    if Index(' 'Sessions' ',' 'NewEC' ')=0 or,
     ec>Maxcec or,
     NewEC=" then do
     Goto Process all Irlms exit
  end
  CMS 'GLOBALV SELECT DOAUTO SET SESSION' NewEC
  CMS 'GLOBALV SELECT DOAUTO SET ECID' NewEC
  Session=NewEC
  Call Process an Irlm
  ec=ec+1
end
```





```
goto Process_all_Irlms_exit
Process all Irlms exit:
  return
                                                        *&START&*/
/* Routine Name: Process_an_Irlm
/* Called by:
/* Parameters passed:
/* Routines called:
/* Routine Function:
                                                        '*&END&***/
Process an Irlm:
  If Irlm process='Start' then do
     Call Hpcs clear all
     Call Get_irlm_21_Options
     Send 'S IRLME2N,'||Irlm_21_Options
     Wait #1
     Call Hpcs_logit 'Starting IRLME2N on '||NewEC
     Call Hpcs_logit Irlm_21_Options
     hpcs_onerror=onerror
     onerror=False
     CALL DOWAIT '5 1 IRLM INITIALIZATION COMPLETE'
     Wait #9:00 Scrhas('RLM INITIALIZATION COMPLETE')
     Wait rc=rc
     onerror=hpcsonerror
     If Wait_rc=0 then do
       hpcs onerror=onerror
       onerror=False
       Wait #10 Scrhas('ABEND=S000 U2018')
       Wait rc=rc
       onerror=hpcs_onerror
       If Wait_rc=1 then do
          Call Hpcs_logit 'Start Irlm issued with active IRLM"s'
          goto Hpcs_test_case_aborted
       end
       Call Hpcs logit 'Irlm failed to initialize, reason unknown'
       goto Hpcs_test_case_aborted
     end
     Goto Process_an_Irlm_Exit
  end
  If Irlm process='Cancel' | Irlm_process='Stop' then do
     Call Hpcs_clear_all
     Send 'D A,L'||ENTER
```

FIG. 32B





Wait #10 Scrhas('IEE114I')		
hpcs_onerror=onerror		
onerror=False		
/***************	*****	*****
/* look for RLM after IEE114I message	*/	*****
, Wait #0 Scrhas('RLM' (HITROW +1:1) (MAX Wait_rc=rc	(ROW : MAXCOL))	•

FIG. 32C